

## SABIC Innovative Plastics Lexan® ML7693 PC Copolymer (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Medium-flow impact-modified high-flow-ductile PC copolymer. Available in black color only.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-ML7693-PC-Copolymer-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ML7693-PC-Copolymer-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D792
	1.70 g/cc	0.0614 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	
Melt Index of Compound	10 g/10 min	10 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	128 %	128 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.2 %	5.2 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.09 GPa	303 ksi	5 mm/min; ASTM D638
Flexural Modulus	2.07 GPa	300 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256
	6.38 J/cm	12.0 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties Dart Drop, Total Energy	Metric 44.2 J	English 32.74 lb	Comments ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	121 °C @Thickness 3.20 mm	250 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 °C @Thickness 3.20 mm	226 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	133 °C	271 °F	Rate B/50; ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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